

BS01042

U.S. Application No. 10/017,428 Art Unit 2623
Submission of Amendment with RCE in Response to April 19, 2006 Final Office Action

AMENDMENT TO THE CLAIMS

1. (Currently Amended) A digital residential entertainment system, comprising:
 - a media server tuning to a transport layer and transmitting the entire transport layer, rather than a single program stream, over a system network bus;
 - a broadband network input/output module receiving the transport layer from off the system bus and sending the transport layer to a network bus;
 - a network input/output module receiving the transport layer from the network bus;
 - a decryption module that receives the transport layer from the network input/output module and that decrypts the transport layer;
 - a demultiplexer that receives the decrypted transport layer and that demultiplexes the decrypted transport layer; and
 - a decoder that decodes the demultiplexed and decrypted transport layer.
2. (Currently Amended) The digital residential entertainment system of claim 1, further comprising a digital-to-analog converter that converts the decoded digital transport layer to analog signals.
3. (Previously Presented) The digital residential entertainment system of claim 1, further comprising a conditional access system that restricts access to media services offered via the transport layer to authorized customers.
4. (Previously Presented) The digital residential entertainment system of claim 3, wherein the conditional access system comprises a card reader and an access card.
5. (Previously Presented) The digital residential entertainment system of claim 3, wherein the conditional access system comprises a secured network conditional access system.

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6. (Previously Presented) The digital residential entertainment system of claim 5, wherein the secured network conditional access system comprises a secured Internet Protocol (IP) connection to an authentication service provider.
7. (Previously Presented) The digital residential entertainment system of claim 6, wherein the secured Internet Protocol (IP) connection is an IPsec connection.
8. (Previously Presented) The digital residential entertainment system of claim 5, wherein the secured network conditional access system comprises a broadband connection to an authentication service provider.
9. (Previously Presented) The digital residential entertainment system of claim 8, wherein the broadband connection is a private virtual circuit (PVC) connection.
10. (Previously Presented) The digital residential entertainment system of claim 1, wherein the decrypting, demultiplexing and decoding functions are integrated into a single chip.
11. (Previously Presented) The digital residential entertainment system of claim 1, wherein the network input/output module, the decryption module, the demultiplexer and the decoder comprise a computer-readable medium comprising computer-readable instructions, which when executed perform the functions of the network input/output module, the decryption module, the demultiplexer and the decoder.
12. (Currently Amended) A digital residential entertainment system, comprising:
 - a tuner array receiving and demodulating a plurality of transport layers, tuning to a specific transport layer identified by a decoder and sending the entire identified transport layer, rather than a single program stream, over a system bus;
 - a broadband input/output module receiving the transport layer from the system bus and sending the transport layer to a network bus;

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a network input/output module retrieving the ~~identified~~ transport layer from the network bus;

a decryption module that receives the transport layer from the network input/output module and that decrypts the identified transport layer;

a demultiplexer that receives the decrypted transport layer and that demultiplexes the identified transport layer; and

a the decoder that decodes the demultiplexed and decrypted decoding the identified transport layer.

13. (Previously Presented) The digital residential entertainment system of claim 12, wherein the decoder is part of a thin client set top box.
14. (Currently Amended) The digital residential entertainment system of claim 12, further comprising a digital-to-analog converter that converts the ~~identified~~ transport layer to analog signals.
15. (Previously Presented) The digital residential entertainment system of claim 12, further comprising a conditional access system that restricts access to media services offered via the transport layer to authorized customers.
16. (Currently Amended) The digital residential entertainment system of claim 12, wherein the ~~identified~~ transport layer is an Ethernet transport layer.